

FIG. 1

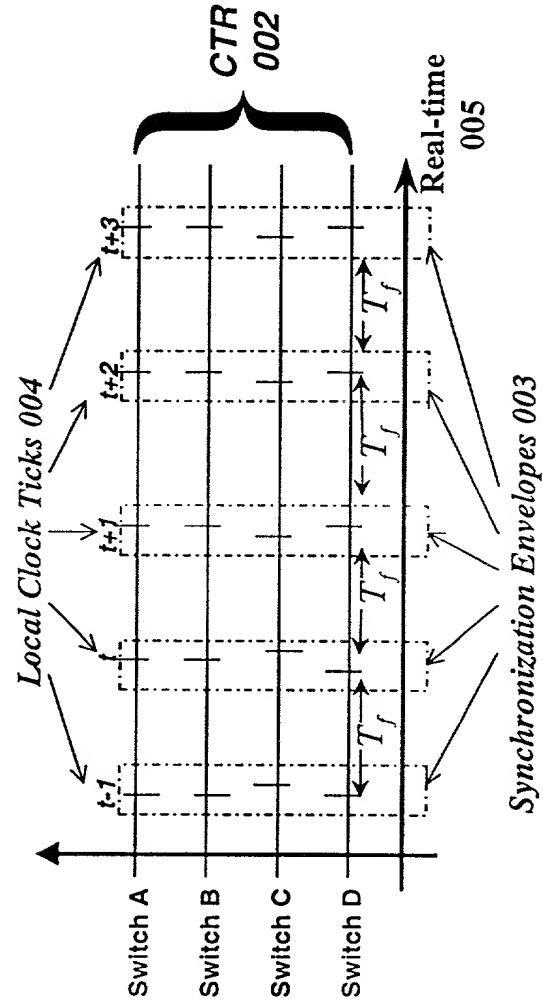


FIG. 2

FIG. 3

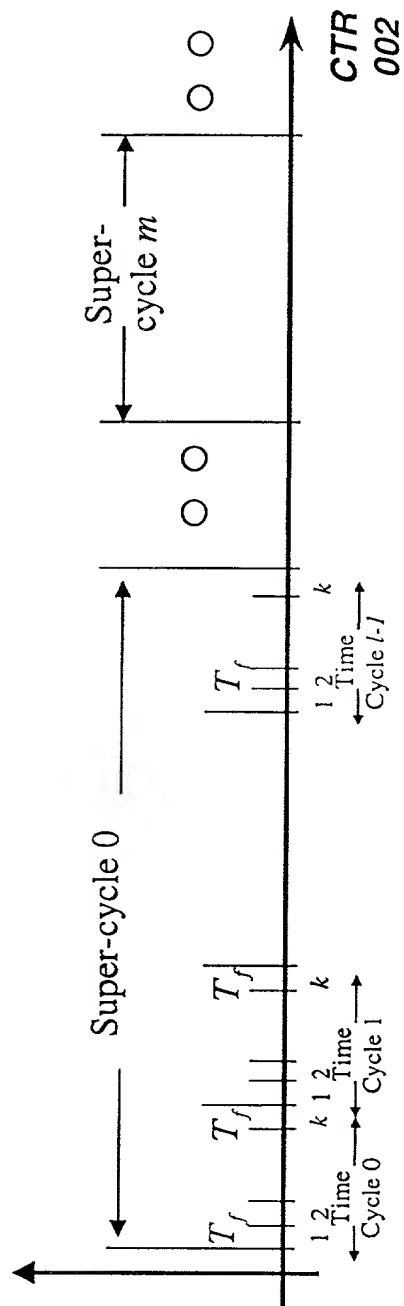


FIG. 4

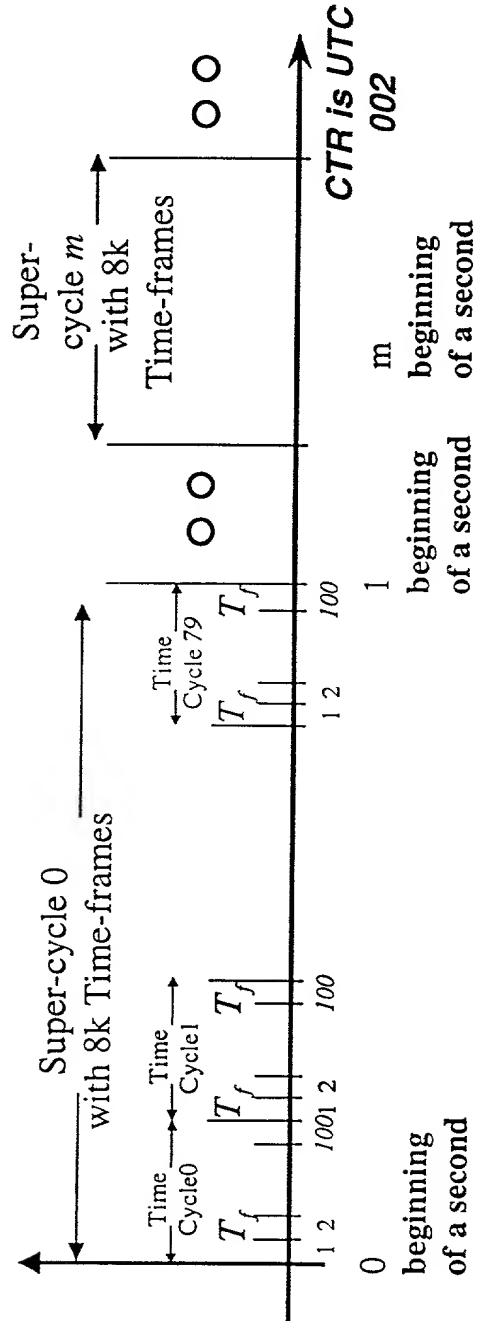


FIG. 5

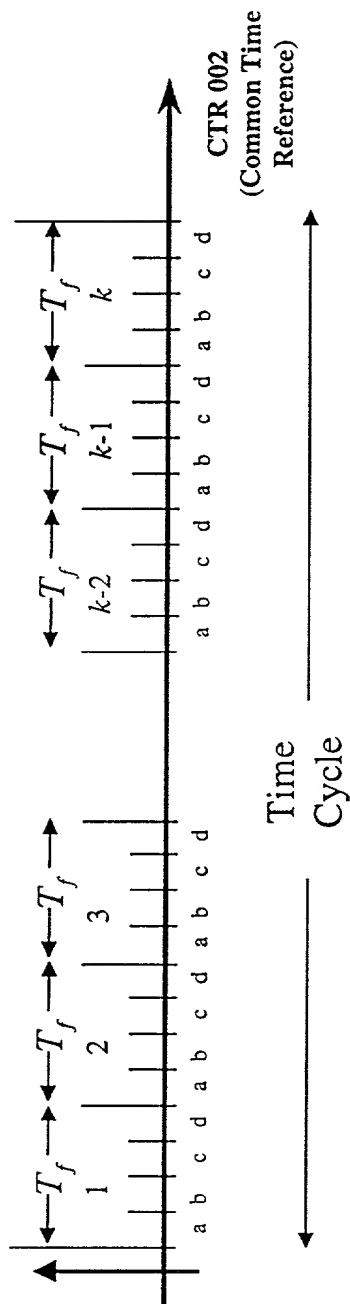
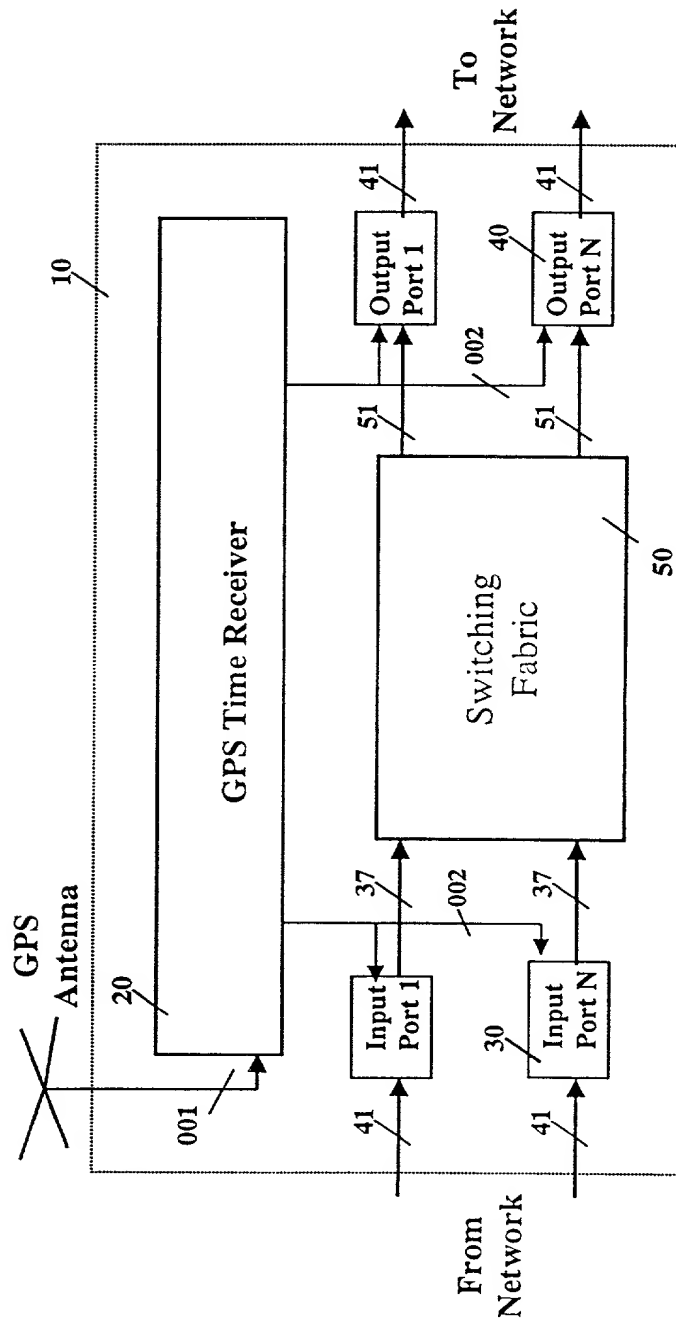


FIG. 6



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FIG. 7

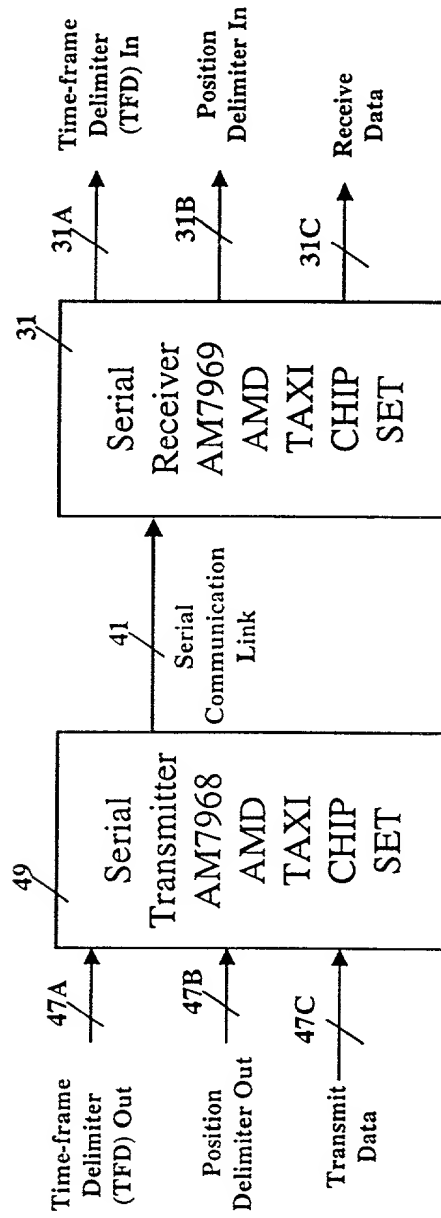


FIG. 8

4B/5B encoding scheme		
HEX DATA	4-bit Binary Data	5-bit Encoded Data Codeword
0	0000	11110
1	0001	01001
2	0010	10100
3	0011	10101
4	0100	01010
5	0101	01011
6	0110	01110
7	0111	01111
8	1000	10010
9	1001	10011
A	1010	10110
B	1011	10111
C	1100	11010
D	1101	11011
E	1110	11100
F	1111	11101

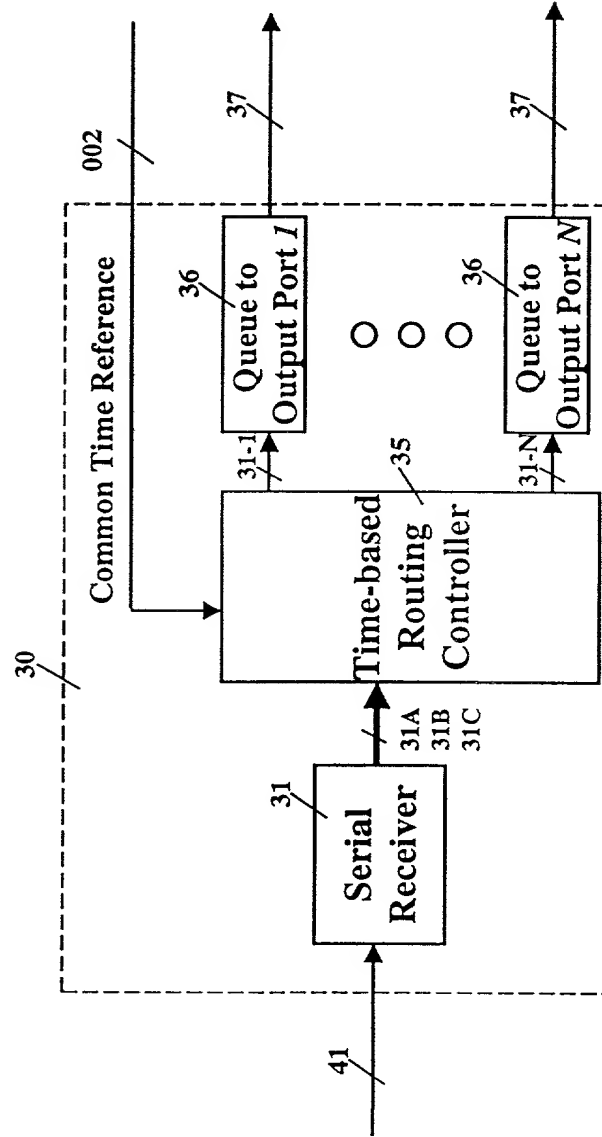


4B/5B encoding scheme			
Control Input		10-bit Encoded Control Codeword	
HEX DATA	Binary Data		
1	0001	11111	11111
2	0010	01101	01101
3	0011	01101	11001
4	0100	11111	00100
5	0101	01101	00111
6	0110	11001	00111
7	0111	11001	11001
8	1000	00100	00100
9	1001	00100	11111
A	1010	00100	00000
B	1011	00111	00111
C	1100	00111	11001
D	1101	00000	00100
E	1110	00000	11111
F	1111	00000	00000

FIG. 9

FIG. 9

FIG. 10



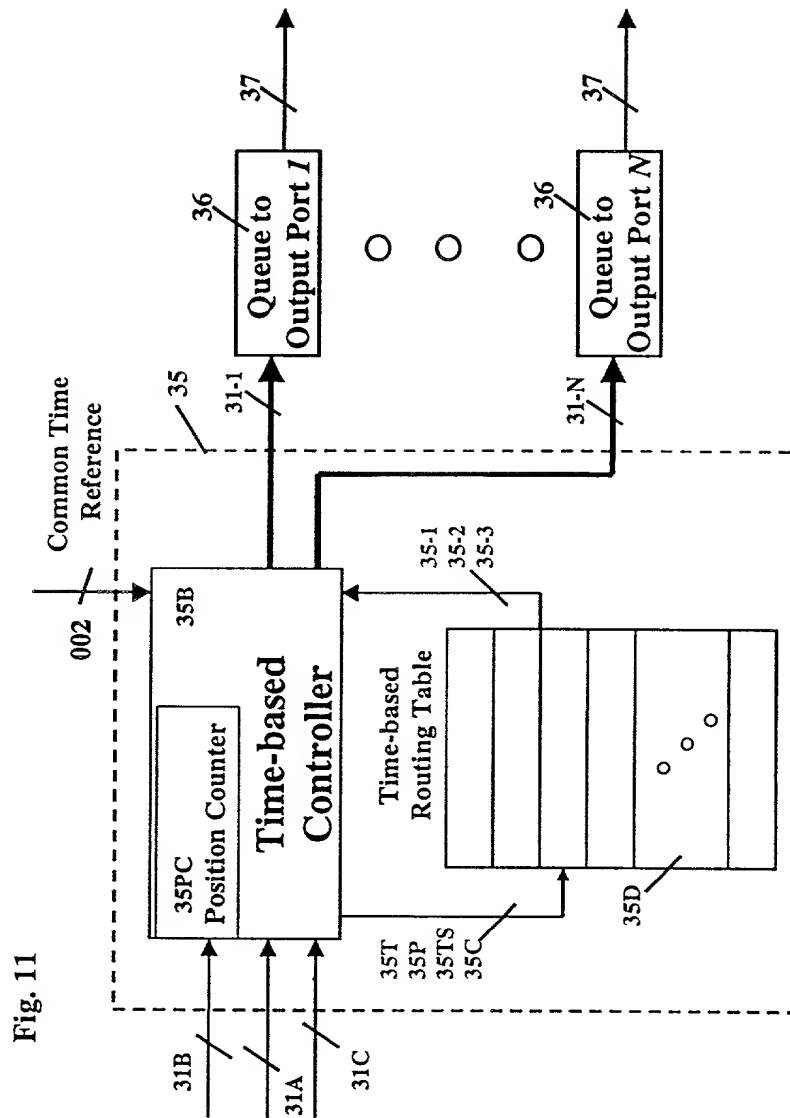


Fig. 11

FIG. 12

Fig. 12

35-1	35-2	35-3
OUTPUT PORT	OUT-GOING TIME-FRAME	POSITION IN OUT-GOING TIME-FRAME
5	$t+4 \bmod k$	a
1	$t+3 \bmod k$	d
4	$t+5 \bmod k$	b
3	$t+3 \bmod k$	d

35D

Time-frame of Arrival  
(TOA) 35T,  
Position Counter 35P

35C

(A) Without a time-stamp

	Payload	P	PID
--	---------	---	-----

35P      35C

Out-going Time-frame 35-2

Position in Out-going Time-frame 35-3

(B) With a time-stamp

	Payload	Time-stamp	P	PID
--	---------	------------	---	-----

35TS      35P      35C

Out-going Time-frame 35-2

Position in Out-going Time-frame 35-3

Given at:

- (1) the source, or
- (2) the PT sub-network boundary

FIG. 14

• Real-time protocol (RTP) with the following fields in the header:

- version (V) - 2 bits
- padding (P) - 1 bit
- extension (X) - 1 bit
- CSRC count (CC) - 4 bits
- marker (M) - 1 bit
- payload type - 7 bits
- sequence number - 16 bits
- times-tamp - 32 bits

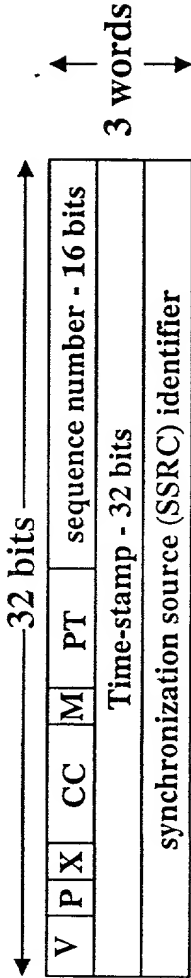


FIG. 15

35-1	35-2	35-3
OUTPUT PORT	OUT-GOING TIME-FRAME	POSITION IN OUT-GOING TIME-FRAME
5	$t+4 \bmod k$	a
1	$t+3 \bmod k$	d
4	$t+5 \bmod k$	b
3	$t+3 \bmod k$	d

35D

Position Counter 35P,  
Time Stamp 35TS,  
Virtual Pipe ID (PID) 35C

35C

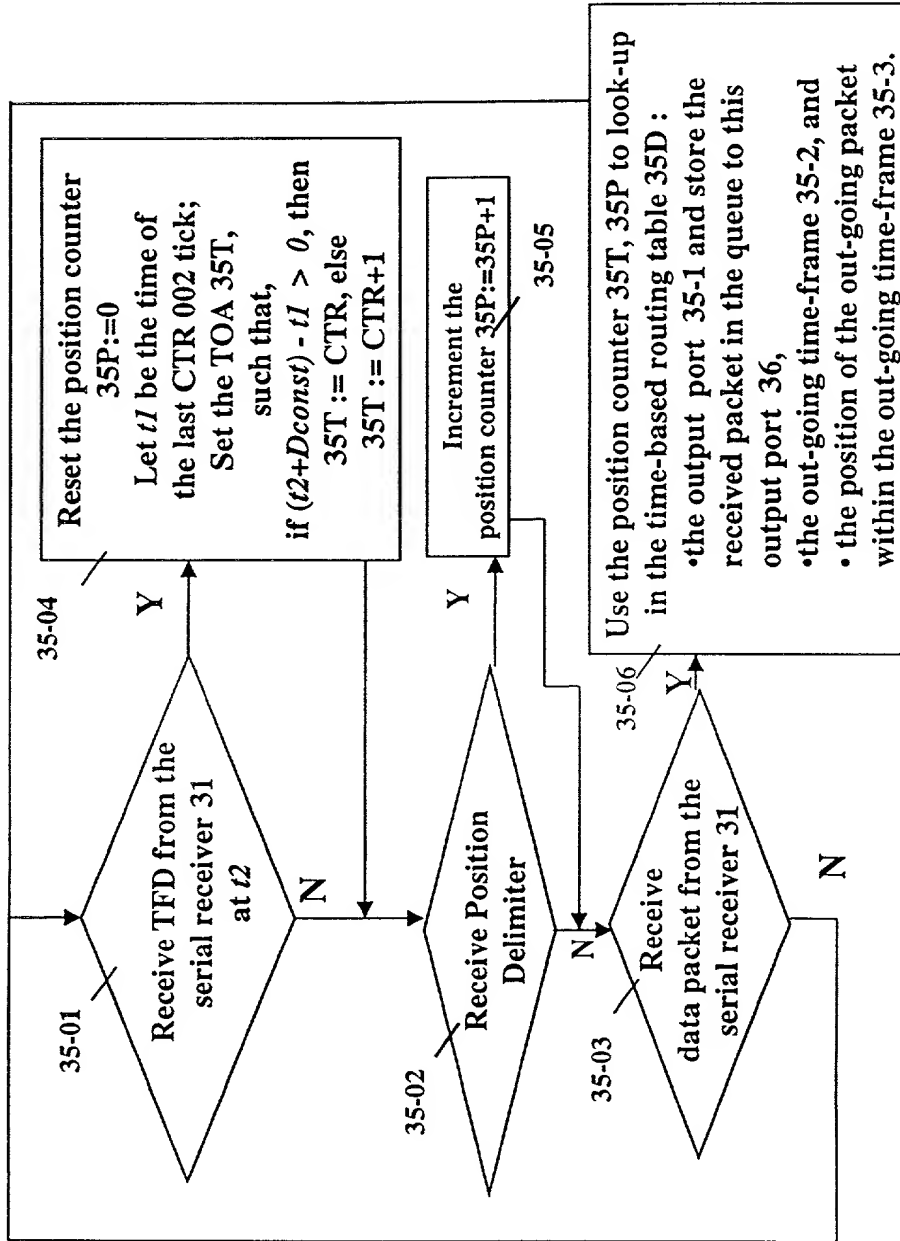


FIG. 16



FIG. 17

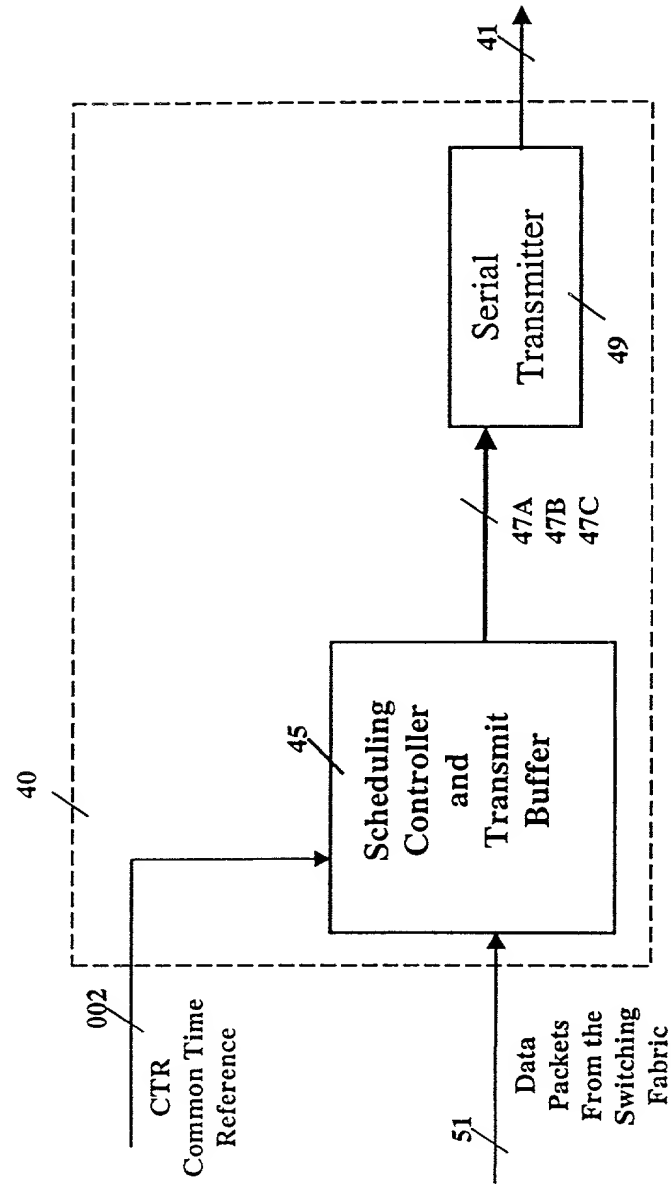


FIG. 18

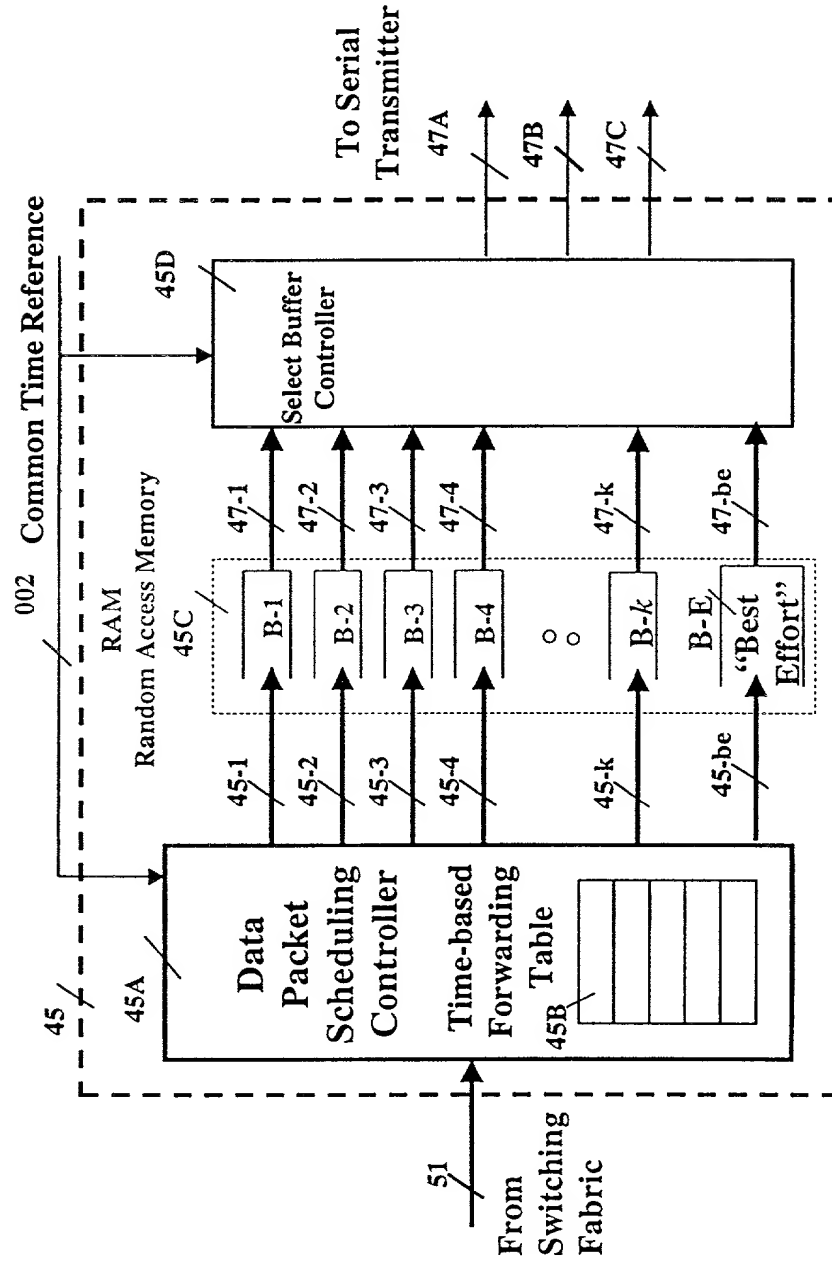
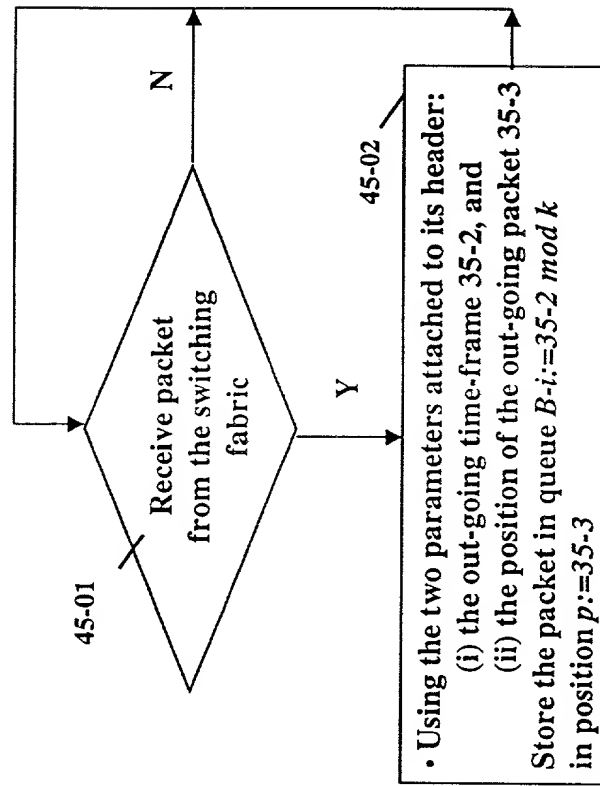


Fig. 19



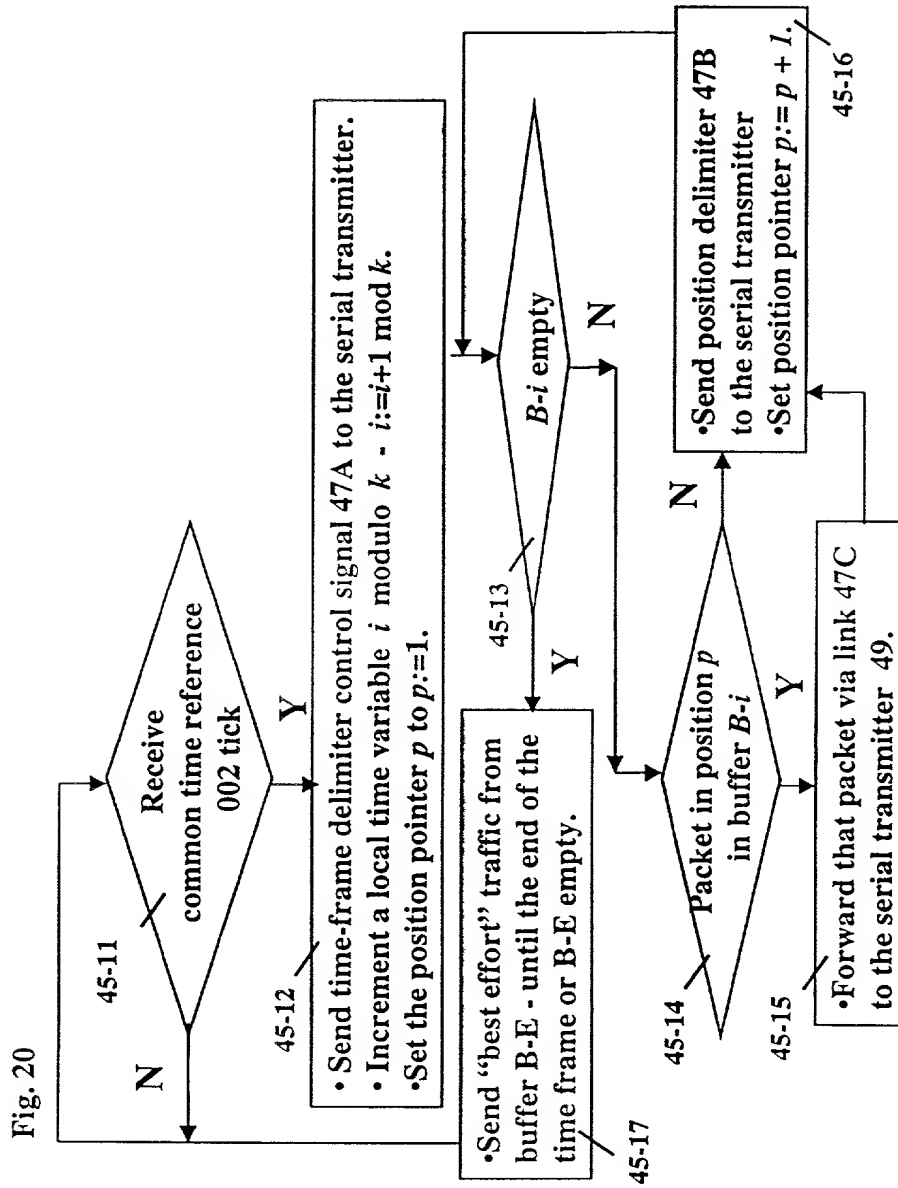


FIG. 20

FIG. 21

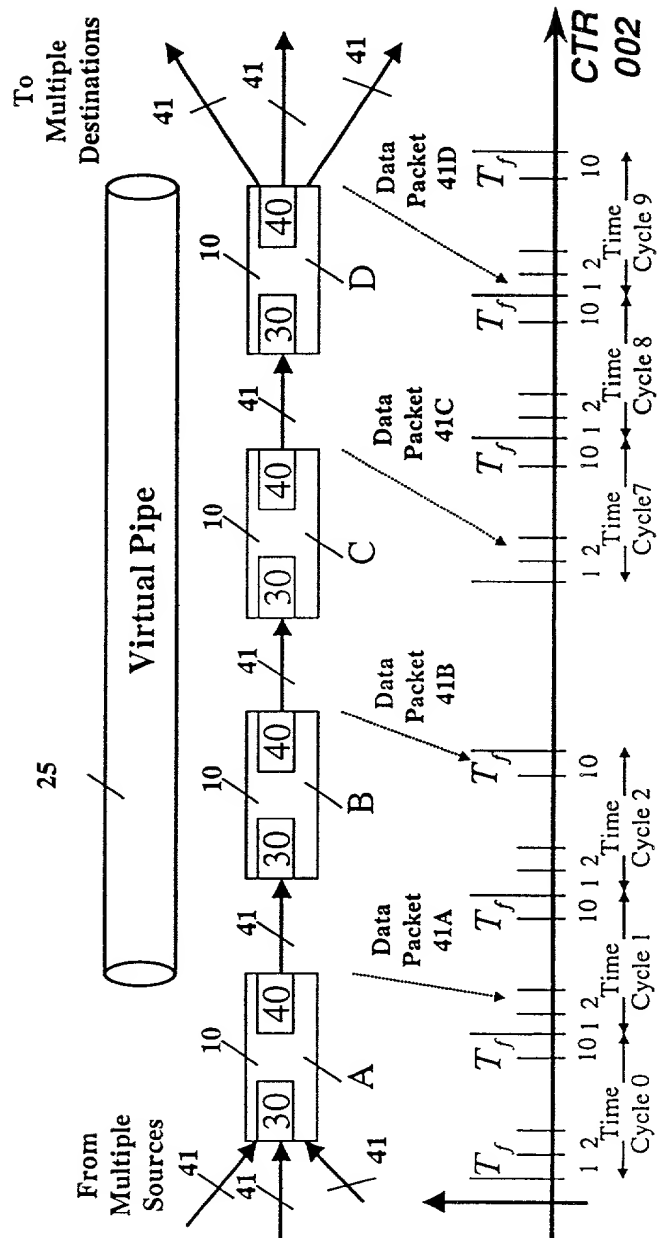


FIG. 22

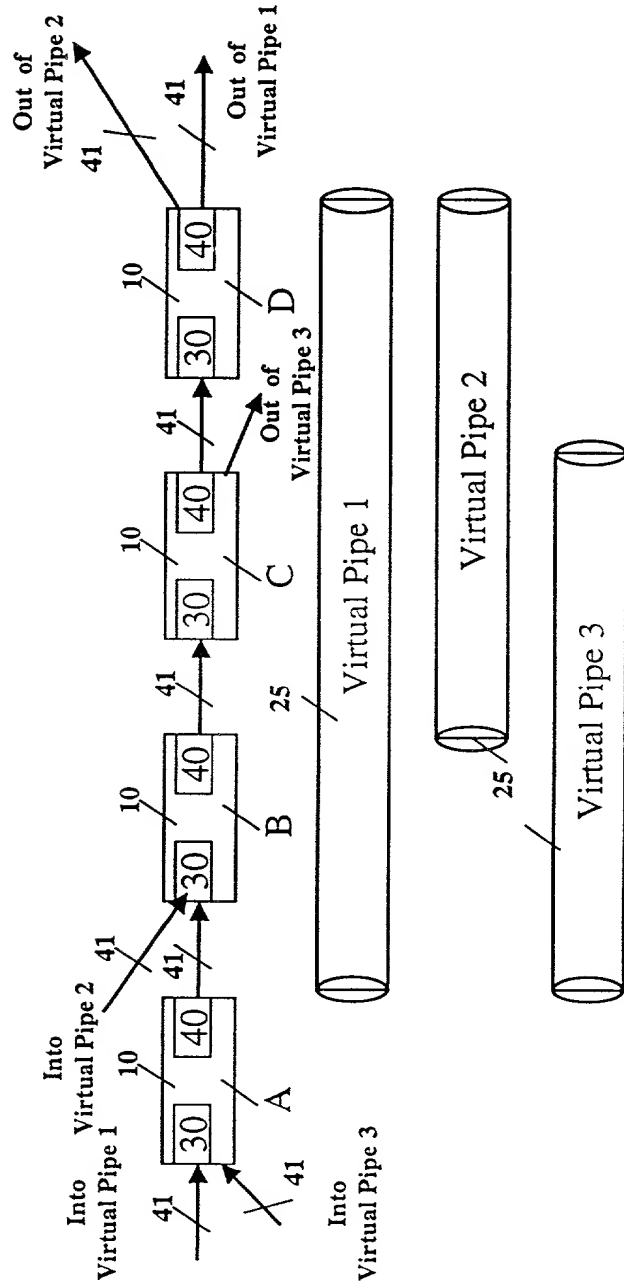


FIG. 23

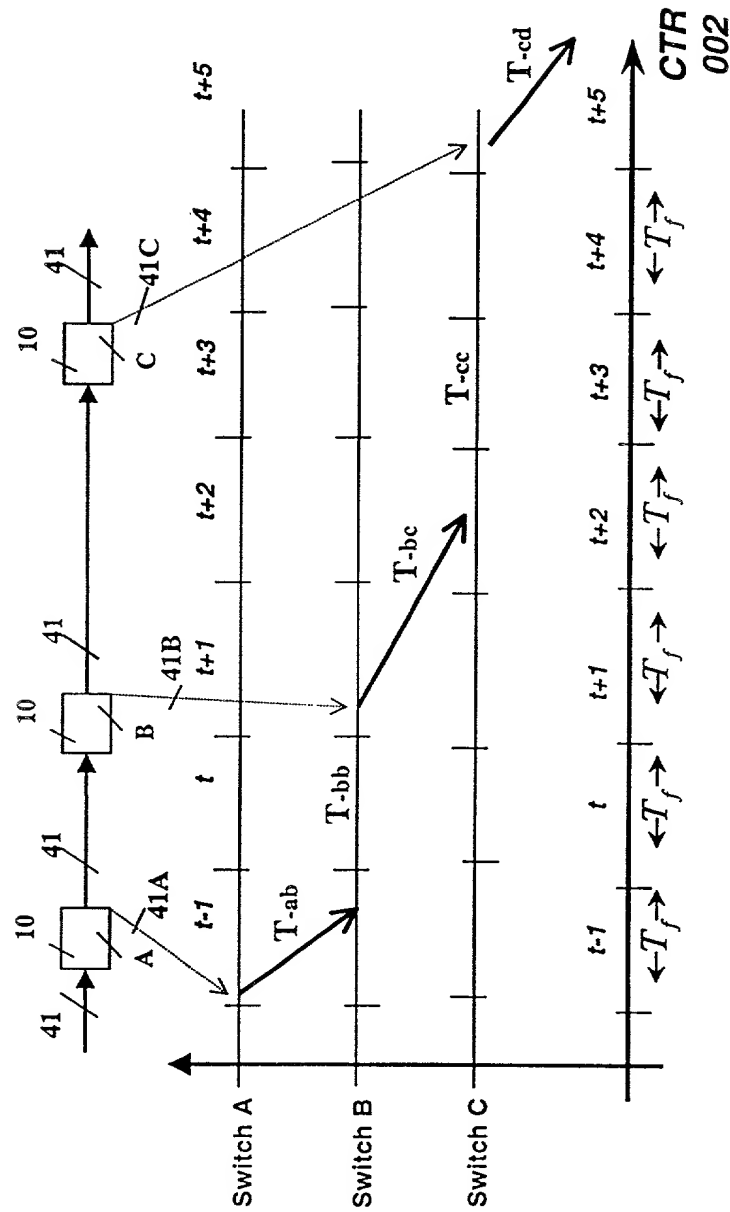


FIG. 24

